

VOLKOVYSKIY, R.Yu.

Formation of a pair and a photon by a photon in the field of a nucleus, IAd. fiz. 2 no.5:878-881 N '65.

(MIRA 18:12)

1. Leningradskiy institut inzhenerov zheleznodorozhnogo transporta im. V.N.Obraztsova.

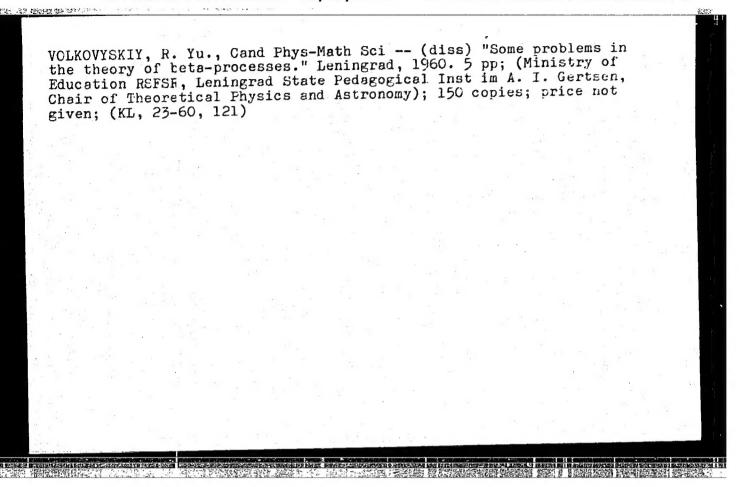
VOLKOYYELIY, R.Yu.

Derivation of the formula describing the fine stricture from a two-component equation. Izv.vys.ucheb.zav.; fiz. no. 2:69-91-164.

Angular correlations in forbidden beta-transitions. !bid.: (MERA 17:6) 71-72

1. Leningradskiy institut inchenerov zheleznodorozhnego transporta.

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620014-3



VOLKOVYSKIY, R.Yu.

Internal bremsstrahlung in β -decay and nonconservation of space and time parity. Izv. vys. ucheb. zav.; fiz. no.4:21-27 '59. (MIRA 13:3)

1. Leningradskiy gosudarstvennyy pedinstitut imeni A.I. Gertsena. (Beta rays) (Bremsstrahlung)

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21(8)	Volkovyskiy, R. Yu.		
AUTHOR:	and the second s	the Internal γ -Bremsstrahlung ance With Respect to an ance with Respect to an ance with relative volumes of the second	
TITLE:	The Circular Polarization of in a β-Decay and the Invariant (Krugovay	ance With Respect to an	
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	in a B-Decay and the inversion of Time (Krugovay tormoznogo y-izlucheniya pri	B-raspade 1 Invalidad	
	pri inversii vremeni)		
	pri inverse	teoreticheskoy fiziki, 1958,	
PERIODICALE	Zhurnal eksperimental noy 1	teoreticheskoy fiziki, 1958, (USSR)	
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	angeri hen	the results obtained by	
ABSTRACT:	theoretical investigation of	the results obtained by f the influence exercised by in connection with the problems ty with respect to time. A ty with respect to time can be	
	bremsstrahlung in G-decay of the conservation of pari	ty with respect to time. A	
	of the conservation of part	o an inversion of time can be	no
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The Circular Polarization of the Internal C-Bremsstrahlung in a 3-Decay and the Invariance with Respect to an Inversion of Time

SOV/56-35-3-51/61

explicitly written down and explained. Next, an expression is written down for the probability of internal bremsstrahlung in the β -decay of orientated nuclei. The expressions, which in the β -decay of orientated nuclei constants, can also contain imaginary parts of the coupling constants, can also contain imaginary parts of the polarization of an electron be determined by investigating the polarization of an electron in the β -decay of orientated and non-orientated nuclei in the β -decay of orientated and non-orientated nuclei (namely, in the same cases as in the usual β -decay). The (namely, in the same cases as in the usual β -decay) of the emission results obtained by calculating β -decay with the emission of a β -quantum are intended to be published in the "Izvestiya vysshikh uchebnykh zavedeniy" vysshikh uchebnykh zavedeniy"

Here only the probability of the state is given in which the electron has an energy such a state is given in which the electron has an energy in the interval dE and the f-quantum in the interval dk. in the interval dE and the f-quantum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Busides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides, the direction of the momentum f of the electron Besides f of the electron besides for the electron b

ASSOCIATION: Card 2/3 Leningradskiy gosudarstvennyy pedagogicheskiy institut (Leningrad State Pedagogical Institute)

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ARKHANGEL'SKIY, A.A.; VOLKOVYSKIY, R.Yu.

Sensitivity of the scintillation method in gamma-ray defectoscopy.

Atom. energ. 19 no.3:308-309 S '65.

(MIRA 18:9)

8/0139/64/000/002/0069/0071 ACCESSION NR: AP4036560 AUTHOR: Volkovy*skiy, R. Yu. Derivation of thin structure formulas from two dimensional equations TITLE: IVUZ. Fizika, no. 2, 1964, 69-71 SOURCE: TOPIC TAGS: coulombic field, electron, spherical spinor, boundary condition, degenerate hypergeometric function, Keplerian motion ABSTRACT: The motion of an electron in a coulombic field has been solved, using the ABSTRACT: The motion of an electric differential equation $\nabla^2 \varphi + \frac{1}{h^2 c^2} \left\{ \left(E + \frac{Ze^2}{r} \right)^2 - E_0^2 \right\} \varphi - \frac{iZe^2}{hc} \frac{\sigma r}{r^3} \varphi = 0$, where E_0 - energy of electron at rest. The solution of this equation is given by the linear combination of $\varphi_{jlm} = F(r)\Omega_{jlm} + G(r)\Omega_{jlm}$, l' = 2j - l', (where Ω_{jlm} - spherical spinor) for boundary conditions $F \to 0$ and $C \to 0$ at $r \to 0$. Two equations are obtained for the radial functions F and G, which are then shown to be reducible to a nonrelativistic Keplerian form given by $\int \frac{d^2F}{dr^2} + \frac{2}{r} \frac{dF}{dr} + AF + \frac{2B}{r} F - \frac{\gamma(\gamma+1)}{r^2} F = 0$, whose solution is Card 1/2

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	functions. Orig. art. he	ns: 10 formulas.
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24,64/0

TITLE:

Volkovskiy, R.Yu. AUTHOR:

Internal γ -brehmsstrahlung at eta-decay and invariance at inversion

of space and time

Referativnyy zhurnal, Fizika, no. 6, 1961, 87, abstract 6B315 ("Ush. PERIODICAL:

zap. Khabarovskiy gos. ped in-t. Piz.-matem. ser.", 1959, no. 1,

36 - 60)

In connection with non-conservation of parity, the author considers the phenomenon of internal gamma brehmsstrahlung in processes of eta -decay and Kcapture. He derives angular correlations between directions of motion of the electron, & _quantum, recoil nucleus and polarization of the nucleus in different cases of radiative B-decay. Folarization of electrons and circular polarization of 7quanta at /3 -decay and K-capture are also studied.

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620014-3"

VOLKOVYSKIY, R.Yu.

Circular polarisation of inner \(\frac{1}{2} - \text{brenestrahlung during} \)
\(\begin{align*} \begin{align*} \text{\$-\text{decay}} & \text{and invariance during the inversion of time.} \) \(\text{Zhur.} \)
\(\text{eksp. i teor. fis. 35 no.3:811-812 S \quad \text{58.} \)
\(\text{MIRA 12:3} \)

1. Leningradskiy gosudarstvennyy pedagogicheskiy institut.
(Nuclear reactions) (Gamma rays) (Beta rays)

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E.T(d)/EWI(m)/EWP(c)/EWP(v)/T/EWP(k)/EWP(1)/EIC(m)L 27861-66 DIAAP WW/DM ACC NR. AP6CO3964 SOURCE CODE: UR/0089/65/019/023/0308/0309 AUTHOR: Arkhangel'skiy, A. A.; Volkovyskiy, R. Yu. ORG: none B TITLE: Sensitivity of the scintillation method in gamma-ray defectosco SOURCE: Atcmmaya energiya, v. 19, no. 3, 1965, 308-309 TOPIC TAGS: gamma flux, gamma ray, metal test, scintillation, test method, defectoscopy ABSTRACT: The dependence of the dimension of the minimum detectable defect, Delta Xmin, on the thickness of the machine part and on the integral gamma flux incident on the machine part is studied, assuming that measurement sensitivity is determined by statistical error - i.e., by fluctuations in the number of gamma quanta - and not by instrument error. A formula is derived for the variation of the sensitivity with the incident integral flux and the machine-part thickness. Results of calculations are compared with those of previous experiments, for the variation of sensitivity with the square root of the inverse source activity and the variation of Delta X_{\min} with machine-part thickness, for a 60 Co source. Orig. art. has: 2 figures and 8 formulas. \boxed{NA} SUB CODE: 20, 13 / SUBM DATE: 14Sep64 / ORIG REF: 005 Card 1/1 UDC: 620.179.15

PESTRYAKOV, V.B.; ZUTKINA, G.A. [translator]; VOLKOVSKIY, S.A. [translator];

DANILOV, N.A., red.; HEZOUKHOVA, A.G., tekhn.red.

[Propagation of radiowaves of lew and very low frequencies; cellection of articles] Rasprostranenie dlinnykh i sverkhdlinnykh reddovoln; sbornik statei. Moskva, Ind-vo inostr.lit-ry, (MIRA 13:6)

(Radiowaves)

(Radiowaves)

VOLKOVYSSKIY, S.M., inzhener-mayor

Radio control panel for instructional use. Vest. protivovozd. obor. no.11:62-63 N '61. (MIRA 16:10)

(Radiotelegraph)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860620014-3

VOLKOVYSKIY, V.L., inzh.; CHECOLIN, P.M., kand. tekhn. nauk

D'gital summator with independent transfer. Vych. tekh. [MVU]
no.3:218-228 '63. (MIRA 17:2)

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IJP(c) BB/GG EWT(d)/EED-2/EWP(1) Pq-4/Pg-4/Pk-4 I 50747-65 UR/0286/65/000/009/0093/0093 ACCESSION NR: AP5015341 581.142 AUTHOR: Kessel man, L. A.; Volkovyskiy, V. L.; Kosov, N. L. FT CHIMMING SECTION SE Dividing unit. Class 42, No. 170757 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 93 TOPIC TAGS: computer component, serial computer ABSTRACT: This Author's Certificate introduces a dividing unit for a keyboardoperated serial electronic computer. The device contains three dynamic registers on a magnetic drum, a sequential adder and a control unit. The device is designed for simplified construction and high speed operation. The dividend keyboard is connected for surial input of the dividend through an "OR" gate to the recording head of the dynamic register for intermediate remainders. The length of the register is twice the length of a remainder and contains two readout heads. One of the heads corresponds to the midpoint of the register and is connected through a valve to the adder imput. The second head corresponds to the end of the register and is connected through another valve and through an "OR" gate to the recording head. Card 1/37

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VOLKOVYSSKIY, Ye.G., inzh.

Selecting steam pressure for tubular dryers. Ugol' Ugr. no.6:
17-19 Je '60. (MIRA 13:7)

(Briquets (Fuel)) (Drying apparatus)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860620014-3

RUDRIAVTSEV, Vladimir Mikolayevich, doktor tekhnicheskikh nauk, professor;
MARKOV, V.G., kandidat tekhnicheskikh nauk, redsktor; VOLKOVYSSKIY,
Yu.R., kandidat tekhnicheskikh nauk, retsensent; MISOV, F.L.;
inzhener, redsktor; SINONOVSKIY, L.Z., redsktor; SOKOLOVA, L.V.
tekhnicheskiy redsktor.

[Selecting suitable transmission] Vybor tipov peredach, Moskva,
Gos.nauchno-tekhn.ixd-vo mashinostroitel noi lit-ry, 1955. 54 p.

(Power transmission) (MLRA 8:10)

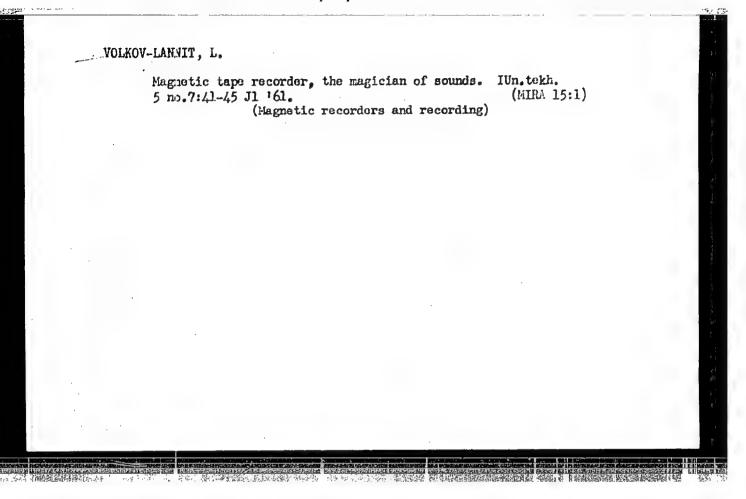
VOROB'YEV, S.V.: VOLKOYEDOV, P.S., kandidat tekhnicheskikh nauk; MUDROV, N.A., inzhener.

Producing profiles of Marious cross-sections by forging with shaped forging blocks. Vest.mash. 33 no.3:28-32 Mr 153. (MLRA 6:5) (Forging)

VOLKOVYSKI'. Yefim Grigor yevich; PERKOV, V.G., otvetstvennyy red.; RYKOV, N.A., red. isd-va; KOROVENKOVA, Z.A., tekhn. red.

[Heat engineering in coal briquetting plants] Teplovoe khoziaistvo ugʻlebriketnykh fabrik, Moskva, Ugʻletekhizdat, 1957. 168 p. (Briquets (Puel)) (Heat engineering) (MIRA 11:10)

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MAGORSKIY, r.s.; KISLOV, N.V.; VOLKUS, S.P.

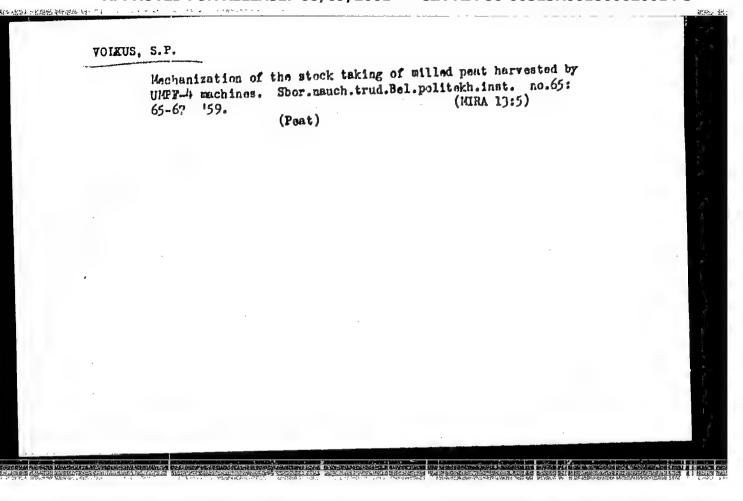
Socking the optimum parameters of rolls for pressing peat dust.
Trudy Inst. torf. AN BSSR 9:153-168 '60. (MITA 14:2)

(Peat nachinery)

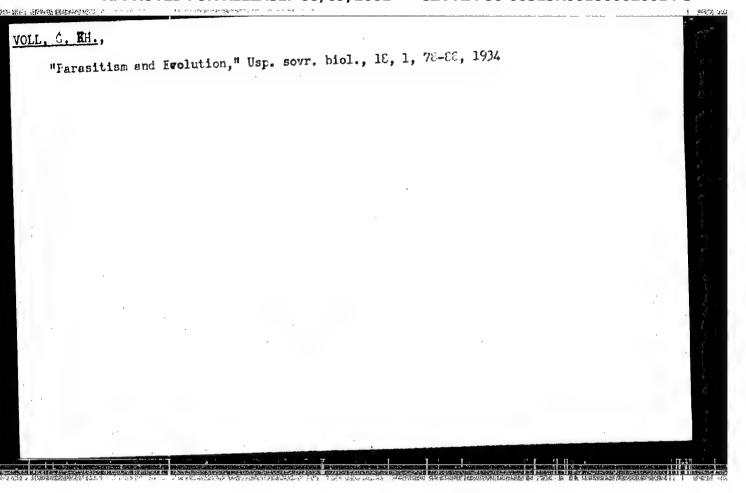
NAGORSKIY, I.S., kand.tekhn.nauk; KISLOV, N.V., kand.tekhn.nauk; VOLKUS, S.P., inzn.

Air permeability of milled peat. Izv.vys.ucheb.zav.; energ. 8 no.4:83-89 Ap 165. (MIRA 18:4)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy torfyanykh mashin.

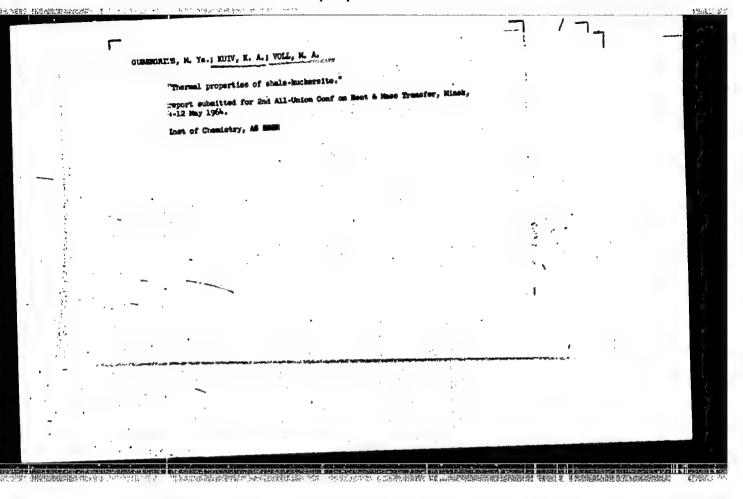


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VAS, Ivan, okleveles gepeszmernok; VOLLAK, Ander, okleveles kohomernok

State and perspectives of the Hungarian forging industry. Pt.2.
Gep 15 no.12:489-497 D 163.

1. Gepipari Technologiai Intezet, Budapest.

Certain questions on the technology of circular forging. Gepgyartastechn 2 no.11:407-408 N 162. 1. Gepipari Technologiai Intezet.

VAS, Ivan, okleveles gepeszmernok; VOLLAK, Andor, ekleveles kohomernok

State and perspectives of Hungarian blacksmithing. Pt.1.Gep.
15 no.11:452-464 N.63

1. Gepipari Technologiai Intezet, Budapest.

VAS, Ivan, okleveles gepeszmernok; VOLLAK, Andor, okleveles kohomernok Specialization and concentration in the forging industry. Gep 15 no.3:96-100 Mr :63.

1. Gepipari Technologiai Intezet, Budapest.

VOLLAR, Janos,; a Voroskereszt Baranya, negyei titkara. menoral confinential tally Social support of health services in mines. Mepegessseguey 37 no.1:6-12 Jan 56 (MINING Red Cross in health & welfare in Hungary (Hun)) (SOCIAL SERVICE Red Cross in Hungary in health & welfare serv. of miners(Hun))

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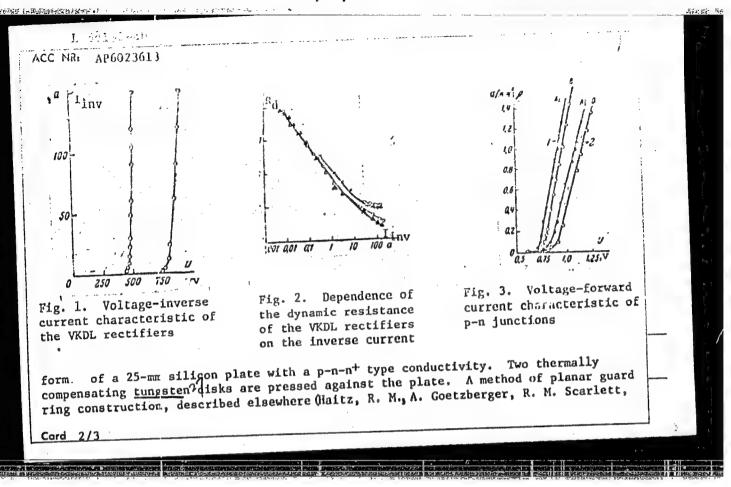
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EWT(1)/EWT(m)/T/EWP(t)/ETI__IJP(c)__JD/JG SOURCE CODE: UR/0105/66/000/007/0056/0059 L 38192-66 R: AP6023613 ACC NRI AUTHOR: Volle, V. M.; Grekhov, I. V.; Kryukova, N. N.; Tuchkevich, V. M.; Chelnokov, V. Ye.; Shuman, V. B.; Yakivchik, N. I. ORG: Leningrad Fhysicotechnical Institute im. Ioffe, AN SSSR (Leningradskiy fizikotekhnicheskiy institut. AN SSSR) TITLE: VKDL-type diffused silicon avalanche power rectifiers SOURCE: Elektrichestvo, no. 7, 1966, 56-59 TOPIC TAGS: semiconductor rectifier, silicon controlled rectifier ABSTRACT: The development is reported of new types of diffused silicon power rectifiers. The rectifiers, the can be operated safely under high peak inverse voltages, differ from conventional diffused silicon rectifiers in that, due to special preparation of the p-n junction, the possibility of local electric breakdown at the intersection of the p-n junction with the surface is eliminated. Therefore, under peak inverse voltages, the process of avalanche breakdown takes place in the central section of the function, while large power is dissipated in the inverse direction. In 1964, the Leningrad Physicotechnical Institute im. Loffe, AS USSR, in cooperation with the "Elektrovypryamitel" Plant developed a series of such rectifiers bearing the with the Elekthovypryamiter right developed a series of such received as se and an 800-v operating voltage. The rectifying element of these devices is in the

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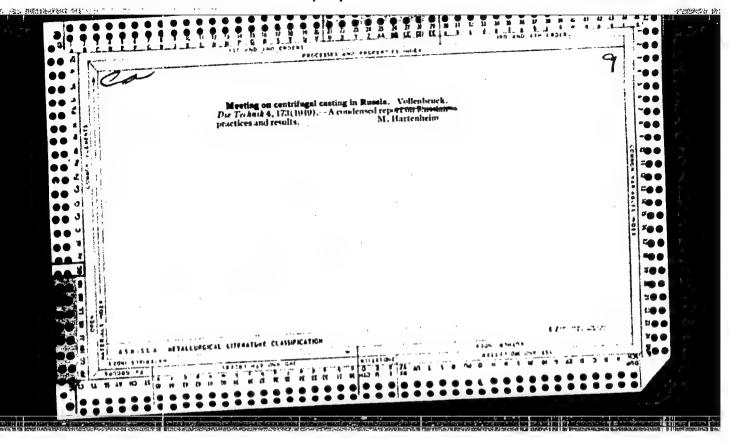
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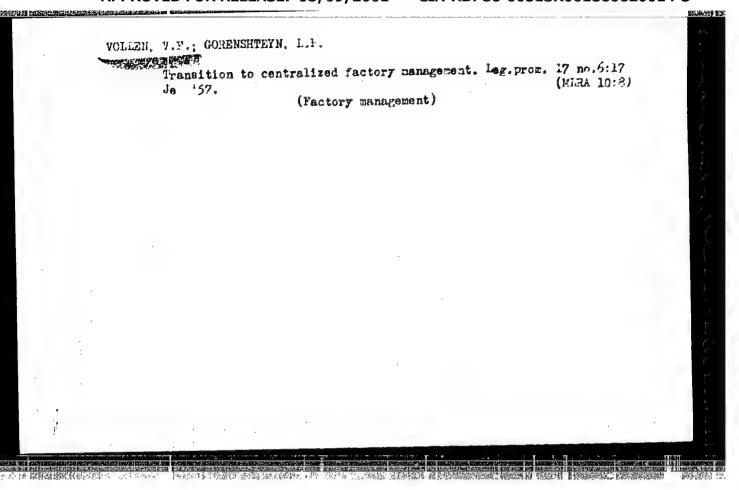
ACC NR: AP6023613

and W. J. Shockley, J. Appl. Phys., v. 34, 1963), was used to eliminate the possibility of surface breakdown. The p-n junctions were made by the method of phosphorus boron and aluminum diffusion. The boron p-n junction was 18 mm in diameter with a planar guard ring 2 mm wide. The thickness in the diffused layer in the central section of the silicon plate was $60-80 \, \mu$, and in the region of the guard ring, 120-160 µ. The thickness of the diffused layer formed by phosphorus on the side of the base contact was 20 µ. Typical voltage-inverse current characteristics of the rectifiers in the breakdown region at 500 and 800 v are shown in Fig. 1. The characteristics correspond to the central p-n junction. The breakdown voltage of the p-n junction in the guard ring exceeds that of the central p-n junction by 250-600 v depending on the initial silicon resistance. Dependence of the dynamic resistance of avalanche rectifiers on inverse current is shown in Fig. 2, and the voltage-forward current characteristic in Fig. 3. With respect to the forward voltage drop, the above devices are divided into three groups: those with a 0.4-0.5, 0.5-0.6, and 0.6-0.7 v forward voltage drop for a nominal current. The inverse current under nominal conditions for all rectifiers does not exceed 5 ma. The lifetime of the avalanche rectifiers is up to 25,000 hr. The number of thermal cycles ranging from -50 to+1/00 should not exceed 5000 during the entire lifetime. The rectifiers can be connected either in series or in parallel. When connected in parallel, they should have equal forward voltage drops. Orig. art. has: 1 table and 8 figures.

SUB CODE: 09/ SUBM DATE: 10May65/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS:

Card 3/3



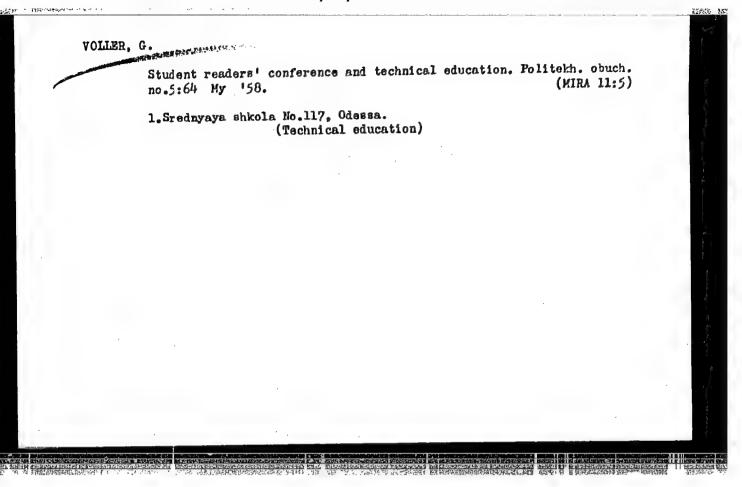


VOLLENBERGER, A.; GALLE, V.

Stimulating action of ACTH and related polypeptides on the apentaneous rhythmicity of isolated heart muscle cells in vitro. Biul. eksp. blol. i med. 56 no.11:38-23 0 [i.e. N] (MHz 17:11)

1. Iz otdeleniya issledovaniya krovcobrashcheniya (zav. → prof. A. Vollenberger) Germanskoy akademli nauk, Berlin-Bukh, Germanskaya Demokraticheskaya Respublika. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620014-3"

VOLLER, I.L., inzh.; KAZAKOV, V.L., inzh.

Experience in repairing reinforced concrete structures using injection concrete. Energ. stroi. no.32:86-89 62. (MIRA 16:5)

1. Normativno-issledovatel'skaya stantsiya Moskovskogo filiala Vsemoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.

VOLLER, J.W.

Putovani Evropom do Rima. (Chicago, 1956) 309 p. (A trip through Europe to Rome. illus., ports.)

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 5, May 1958

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VEKSLER, G.S.; VOLLERMER, N.F.

An electronically controlled carbon-type voltage stabilizer. Izv. vys. ucheb. zav.; radiotekh. 5 no.3:407-409 My-Je 162. (MIRA 15:9)

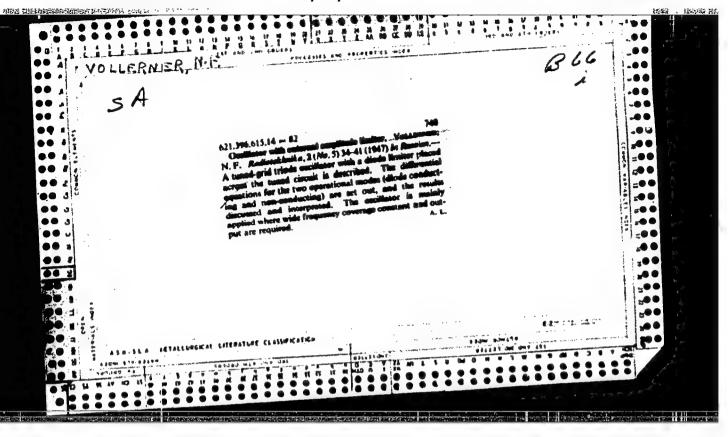
l. Rekomendovano kafedroy radiopriyemnykh ustroystv Kiyevskogo ordena Lenina politekhnicheskogo instituta. (Voltage regulators)

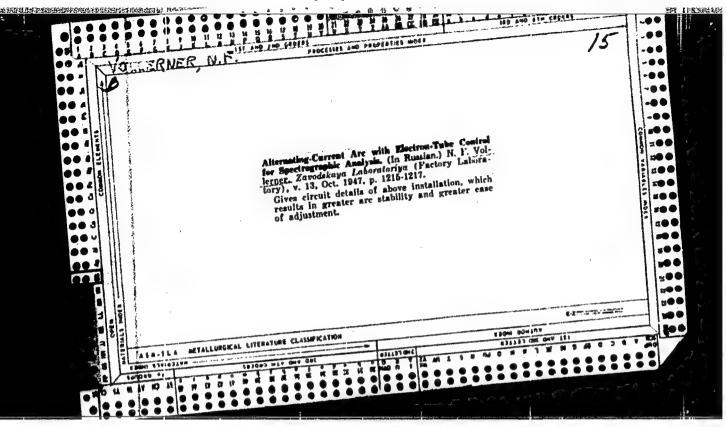
VOLKOV, Viktor Mikhaylovich, kand. tekhn. nauk; VOLLERNER, N.F.,
doktor takkn. nauk; prof., retsenzent; POLYANSKAYA, L.O., inzh.,
red. izd-va; STARODUB, T.A., tekhn. red.

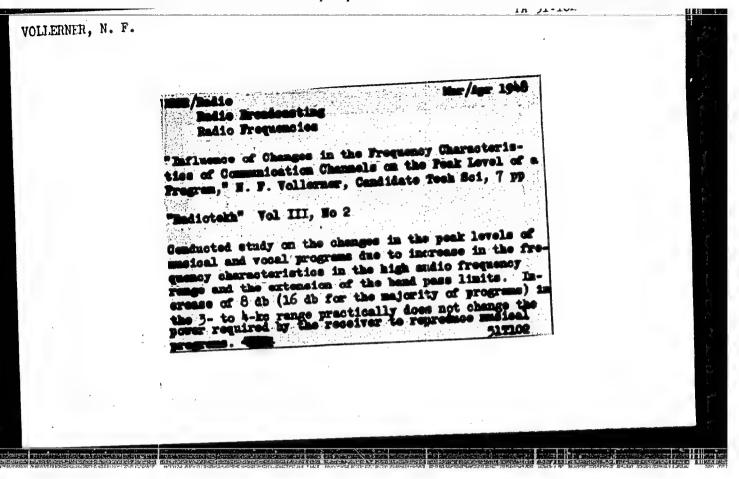
[Logarithmic amplifiers]logarifmicheskie usiliteli. Kiev, Gostekhizdat, USSR, 1962. 243 p.

(Transistor amplifiers)

(Transistor amplifiers)







FA 6/49T103

UBSR/Redio

Ju1/Aug 48

Oscillators, High Frequency

"Frequency Modulation of Band Type RS-Oscillators," N. F. Vollerner, Cand Tech Sci, 9 pp

"Radiotekh" Vol III, No 4

Gives circuit diagrams and characteristics of oscillator, short analysis of author's work, and results of his experimental tests.

6/497103

VOLLERNER, N. F.

"The source of stable voltage," Izvestiya
Kiyevsk. politekin. in-ta, Vol VIII, 19h8 (Gn cover: 19h9),
p. h9-52

SO: U-52h1, 17 Ducember 1953, (Letopis 'Zaurnal 'nykh Statey, No. 26, 19h9)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860620014-3

VOLLERNER, N. F.

Vollerner, N. F. "Methods of improving the efficiency of radio communications," Izvestiya Kiyevsk, politekhn. in-ta, Vol VIII, 1948 (on cover: 1949), p. 53-58

So: U-52hl, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, No. 26, 1949)

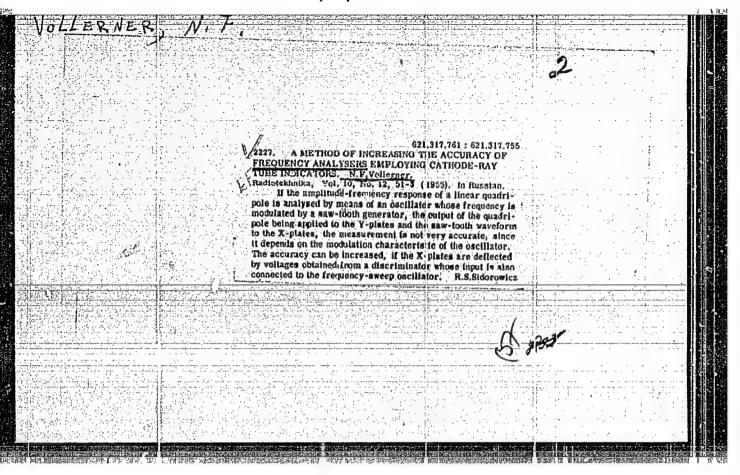
VOLLERNER, N. F.

"Apparatus Spectral Analysis".

Kiev Folytechnic Institute

A report delivered at a conference on Electro-acoustics held by the Acoustic Commission, the Acoustic Institute of the Academy of Sciences, USER, and the Kiev Order of Lenin Polytechnic Inst., from 1-5 July 1955 in Kiev.

SO: Sum 728, 28 Nov 1955



SUBJECT

USSR / PHYSICS

CARD 1 / 2

PA - 1713

AUTHOR TITLE VOLLERNER, N.F.

The Selection of the Permissible Deviations of the Parameters of

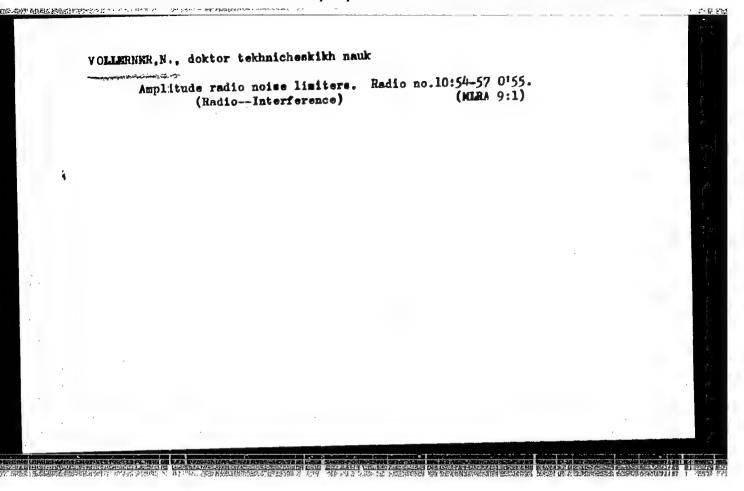
Radio-Technical Assemblies of an Apparatus.

PERIODICAL Radiotechnika, 11, fasc.11, 62-71 (1956)
Issued: 12 / 1956

The problem of the interchangeability of the elements of the assemblies of a radio apparatus in the case of mass production is dealt with. The radio industry as yet possesses no worked-out system for tolerances in the case of assemblies of radio installations. At present the interchangeability of individual parts and assembly-groups and a normal functioning of the apparatus immediately after assembling is not assured. After being assembled the apparatus must first be got going. The working dapacity needed for this purpose may amount to from 30 to 60% of the total working capacity necessary for one product. On the basis of concrete examples general ideas are outlined for those cases in which a putting into operation of the apparatus is necessary after the apparatus has been assembled. Thus it was found in practice that on the occasion of the production of the elements of an oscillatory circuit and of the electric filters, as well as for several types of resistances not consisting of wire and some wire alternating resistances adaption is advisable. On the other hand, no adaption after assembly is necessary on the occasion of the production of transformers and of throttles of high and low frequency. Selection of tolerances depends above all on the working conditions of a building assembly. As a rule defects of individual parts should be about equal, and every construction should be of uniform

PA - 1713 CARD 2 / 2 Radiotechnika, 11, fasc. 11, 62-71 (1956) accuracy. The tolerances for several typical building assemblies of radio mass production are in accordance with technical necessity, viz. for output- and power transformers. Schemes and diagrams are shown from which the influence exercised by asymmetry on the winding currents may be seen. Another diagram shows the influence exercised by asymmetry on losses in copper. Next, the influence exercised by the asymmetry of the winding-halves of a two-half-period rectifier on the phon-level is investigated. Analysis is carried out on a kenetron rectifier. The results of these investigations show that, on the occasion of the computation and construction of kenotron rectifiers, and in the case of a given permissible accuracy of windings, it is necessary either to select the rectifying angle accordingly, or, in the case of small rectifying angles, to select the filter elements in such a manner that the pulsating of the voltage of the first and not of the second harmonic serves as a basis. The example mentioned shows that tolerances can be determined by computation, and that on this basis also the permissible deviations of the number of transformer windings can be selected. The tolerances obtained by computation correspond to those which actually exist in radio-mass production plants.

INSTITUTION:



Mr. Ap 158.

VOLLERHER, N.F. Increasing the noiseproof features of reception by limiting the envelope derivative. Izv. vys. ucheb. zav.; radiotekh. no.2:157-165 (MIRA 11:5)

1. Rekomendovana kafedroy radiopriyemnykh ustroystv Kiyavskogo ordena Lenina politekhniche skogo instituta.

(Radiotelephone) (Noise)

sov/3713

PHASE I BOOK EXPLOITATION

Vollerner, Naum Filippovich, Doctor of Technical Sciences

Suchasna radioelektronika (Modern Radio Electronics) Kyylv, 1959.

43 p. (Series: Tovarystvo dlya poshyrennya politychnykh 1 naukovykh znane Ukrayins'koyl RSR. Ser. 5, No. 17) 23,500 copies

General Ed.: I.V. Akalovs'kiy, Candidate of Technical Sciences;

This booklet is intended for the general reader. Ed.: A.Ya. Ver.

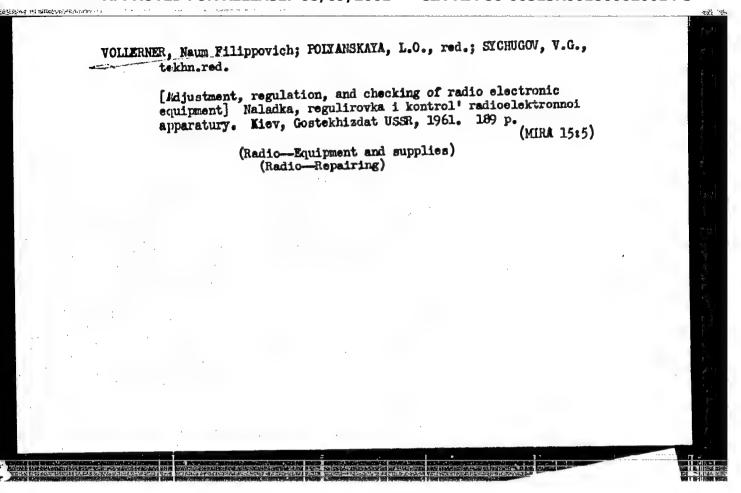
COVERAGE: The author discusses only the principles of radio electronics and the applications of radio electronics in such branches of the national economy as radio communications, television; industrial radio electronics, radio navigation, radar and radio medicine. No personalities are mentioned. There are 25 references, all Soviet.

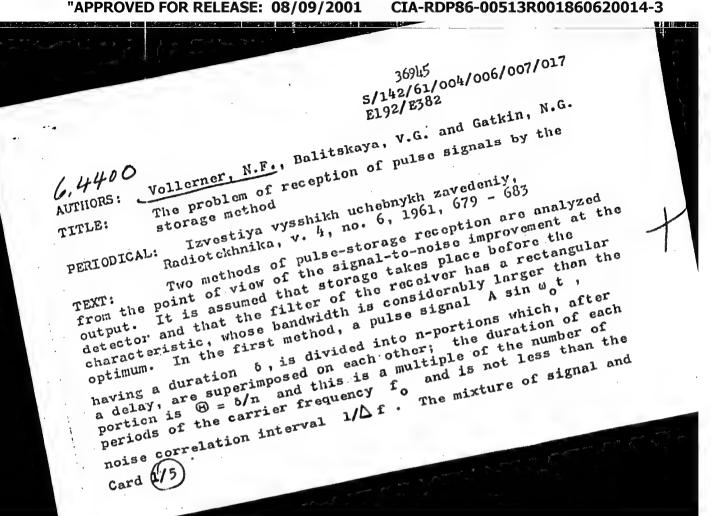
TABLE OF CONTENTS:

Card 1/2

JP/jb 6-6-60 VOLLERNER, Naum Filippovich; ISLANKINA, T.F., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Radio and electronics in the national economy] Radioslektronika v narodnom khosiaistve. Moskva, Izd-vo "Znanie," 1960. 44 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politichaskikh i nauchnykh znanii. Ser.4. Wauka i tekhnika, no.20) (MIRA 13:9) (Electronics)





S/142/61/004/006/007/017 E192/E382

The problem of reception

noise U_c and U_{U} (where U_{U} is the noise) is applied to n inputs which are connected in parallel and which are successively opened for a time $\Theta = \delta/n$. Each of the inputs is opened opened for a time () = 0/11. Each of the preceding input. after a time interval (i) with regard to the preceding input. Control of the inputs is performed by a special forming device. The pulses of signal and noise having a duration \(\theta\) from the input circuits are applied through delay lines to an adding circuit. The signals from the first input circuit are delayed by an interval (n-1)0, that of the second circuit by (n-2)0 and so on. It is shown that the gain in the signal-noise ratio due to the above system is expressed as:

the above system is expression
$$Q_{1} = \frac{P_{c1}/P_{w1}}{P_{c1}!/P_{w1}!} = n^{2} \frac{\sigma_{b}^{2}}{\sigma_{\Theta}^{2}}$$
(1)

is the fluctuation noise at the output of the

Card 2/5

CIA-RDP86-00513R001860620014-3" APPROVED FOR RELEASE: 08/09/2001

S/142/61/004/006/007/017 E192/E382

The problem of reception

receiver when the signal and noise are integrated over a period \emptyset , and σ_{δ} is the noise power at the receiver when integrated over the interval δ . In the second method, which is analogous to that described in Ref. 1 (M. Shvarts - Voprosy radiolokatsionnoy tekhniki, 43, no. 1, 1958, 3), the pulse signal after the filter of the receiver passes through a delay line having a outputs. The signal is delayed between two neighbouring outputs by a time $\delta/n = 1\Delta f$, which is equal to the correlation time of the noise and is a multiple of the period of the carrier frequency. As in the first methods, the pulse at the input of the delay line is rectangular and the rise time of the pulse can be neglected. Again, it is shown that the gain in the signal-noise ratio, due to the predetector storage, is expressed by Eq. (1).

Card 3/5

\$/142/61/004/006/007/017 E192/E382

The problem of reception

It is now necessary to determine the noise powers in Eq. (1). It is shown that provided the bandwidth is much smaller than the carrier frequency the noise is expressed as:

(3) $o^2 = b^4 \Delta \omega^2 k$

is the noise power per unit bandwidth at the input where for the case of low signal/noise levels is given by: of the detector and k

$$k = \frac{4}{(\Delta \omega T)^2} \left(-1.577 + \cos \Delta \omega T + \cdots + \Delta \omega T \right) \left(-1.577 + \cos \Delta \omega T \right)$$

$$+ \Delta \omega T \sin \Delta \omega T + \sin \Delta \omega T + \cos \Delta \omega T \right). (4)$$

The quantity T in Eq. (4) denotes the duration of the output pulse. By employing Eqs. (3) and (4) in conjunction with Eq. (1),

Card 4/5

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CIA-RDP86-00513R001860620014-3

S/142/61/004/006/007/017 E192/E382

The problem of reception

it is found that gains up to 100 are possible. There are 5 figures and 1 table.

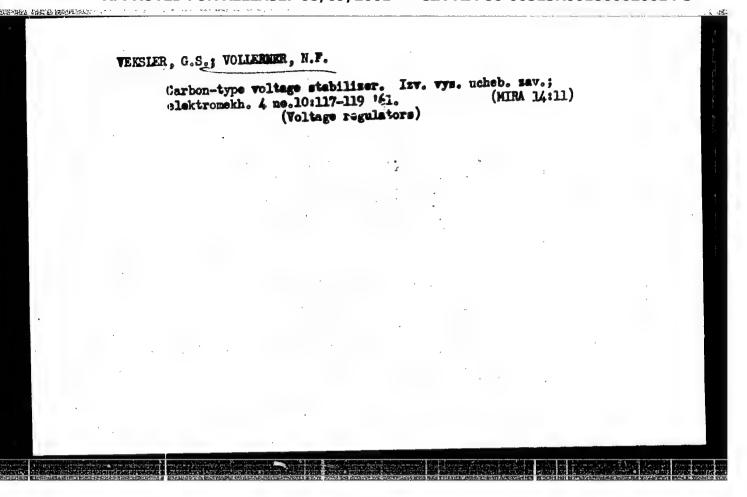
ASSOCIATION:

Kafedra radiopriyemnykh ustroystv Kiyevskogo ordena Lenina politekhnicheskogo instituta (Department of Radio-receiving Devices of the Kiyev Order of Lenin Polytechnical Institute)

SUBMITTED:

November 19, 1960

Card 5/5



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9.6000

Vollerner, N.F., Gatkin, N.G. and Tereshchuk, R.M.

AUTHORS: Vollerner, N.F., datkin, and Title: A suitable indicator for a frequency-analyzer

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 5, no. 1, 1962, 85 - 90

obtained from a numerical analysis of a waveform and an experimental processing of the waveform by means of a frequency-analyzer lies in the fact that the results of the former can be used to synthesize the shape of the waveform at the output of a network whose characteristic is known, while this synthesis is impossible by employing the results of the experimental analysis. It is therefore suggested that a frequency-analyzer can be made nuch more useful if its output filter is followed by three parallel systems which determine the maximum amplitude Umax, the root mean square value Ur and the average value Um; secondly, the three devices from the following ratios, Umax Um and Umax Um order to determine whether these Card 1/2

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A suitable indicator

S/142/62/005/001/003/012 E192/E582

ratios provide worthwhile information, their values are determined for the following cases: 1) a sinusoidal signal; 2) noise having normal probability density distribution; 3) a periodic train of radio pulses of durat..on ~ and a period T with a rectangular envelope; a periodic train of video pulses having a repetition period 4) 5) a mixture of normal noise and a sinusoidal waveform and a mixture of a train of periodic radio pulses and normal noise. It is found that for all the above cases the ratios differ significantly. On the basis of Umax, $U_{\text{max}}/U_{\text{m}}$ and their ratios, it is therefore possible to determine ប្ដ not only the frequency components but also the fine structure of the analyzed process. There are 5 figures. Kafedra radiopriyemnykh ustroystv Kiyevskogo ASSOCIATION: ordena Lenina politekhnicheskogo instituta (Department of Radio-receiving Devices of the Kiyev Order of Lenin Polytechnical Institute)

SUBMITTED: Card 2/2

November 19, 1960

1,0553

S/142/62/005/003/009/009 E192/E382

9,2540

Veksler, G.S. and Vollerner, N.F.

AUTHORS:

Electronically-controlled carbon-resistance voltage-

TITLE:

stabilizer

RUMANNAMENTAL DEL PROPERTA DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANION DEL COMPANIO DE

Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 5, no. 3, 1962, 407-409 PERIODICAL:

A voltage-stabilizer based on a carbon-resistance control element can be improved by introducing an electronic TEXT: circuit for the resistance-control instead of the mechanical system. In this case, the stabilizer is in the form shown in Fig. 1, where the mains voltage is applied to the load R via The voltage from across the load is fed a carbon rheostat B and then into a bridge circuit consisting of resistances R_1 , R_2 , R_3 and a voltage reference tube C_T . The voltage deviation, which is determined by the deviation of the output voltage from the nominal, is amplified by the amplifier YC and the resulting signal is applied to the electromagnet 3M, which controls the msistance of the carbon element. Card 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620014-3" 5/142/62/005/003/009/009 E192/E382

Electronically-controlled

The operation of the system is analyzed in some detail and it is shown that a stabilization coefficient of 50 can easily be obtained. A similar stabilizer can also be used for direct voltages. The carbon stabilizer is advantageous in comparison with an electron-tube stabilizer in that its efficiency is about one order higher than that of the purely electronic system. There are 5 figures.

ASSOCIATION: Kafedra radiopriyemnykh ustroystv Kiyevskogo

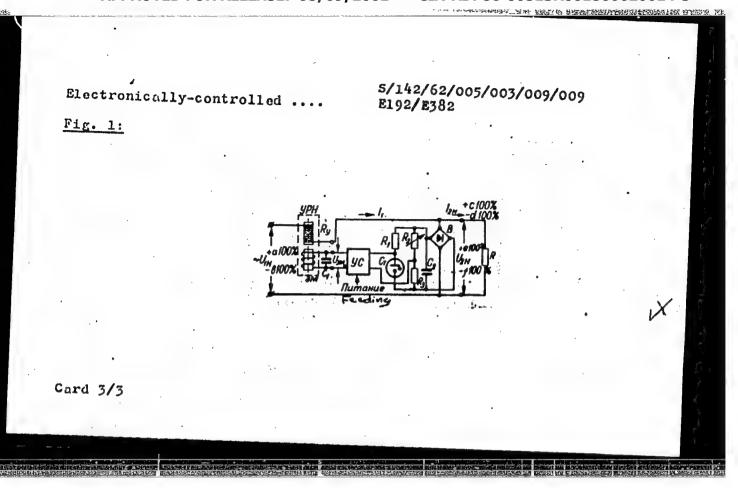
ordena Lenina politekhnicheskogo instituta (Department of Radio-receiving Devices of Kiyev

Order of Lenin Polytechnical Institute)

SUBMITTED: June 15, 1961 (initially)

December 2, 1961 (after revision)

Card 2/3



S/120/62/000/001/027/061 E140/E463

AUTHORS:

Vollegner, N.F., Kriksunov, V.G.

TITLE:

Some questions of automation of aperture spectrum

analysis

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 117-122

TEXT: The article consistutes a rather diffuse discussion of the contradictions involved in a sequential aperture type of spectrum analyser, where the sampling errors decrease as the sample duration increases but where the errors due to nonstationarity of the process increase with sample duration. The authors therefore conclude that the best method is to record the process on magnetic tape so that it can be subjected to multiple analysis. The general features of one such instrument are described.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut

(Kiyev Polytechnical Institute)

SUBMITTED:

June 21, 1961

Card 1/1

33786 5/108/62/017/002/001/010 D201/D305

6.9210

AUTHORS:

Vollerner, N.F., Gatkin, N.G., and Karnovskiy, M.I., Members of the Society (see Association)

Interference-killing properties of a receiver produc-ing a combination of readings of an autocorrelation TITLE:

function

Radiotekhnika, v. 17, no. 2, 1962, 3 - 9

TEXT: The authors show that in a correlation arrangement, in which PERIODICAL: the signal Uout.s (T) at the output is formed by combined readings of autocorrelation functions, taken with certain weighting factors Ai, it is possible to achieve additional improvement in the S/N ratio. The signal at the integrator output in this case has the form

$$U_{\text{out.s}}(T) = \sum_{i=0}^{n} A_i \frac{1}{T} \int_{0}^{T} U_c(t) U_c(t - \tau_i) dt.$$
 (1)

Card 1/5

\$/108/62/017/002/001/010 D201/D305

Interference-killing properties ...

Fig. 1 shows the block diagram of the correlation arrangement according to (1). The mixed pulse signal and fluctuating interference, after the Π -shaped frequency response filter with pass band Δ f $\gg \tau_p$ (where τ_p is the pulse duration) is applied to a multiplier. The sum of mixed signals, passed through n-changes is applied to the second input of the amplifier, every channel delays the signal by time

 $\tau_{i} = i\tau_{1} \qquad i = 0, 1, 2, \dots, n$ $\tau_{1} = \frac{1}{\Delta f} \circ$ (3)where

It is shown that the circuit of Fig. 1 has the output signal according to (1) and it is shown that at any $i \neq 0$, as determined by relationships (2) and (3), the dispersion of noise is determined by

D $\left\{ \mathbf{U_n(t)}\mathbf{U_n(t-\tau_i)} \right\} \approx \frac{1}{2} \, \mathrm{D} \left\{ \mathbf{U_n^2(t)} \right\}.$

the following deduction are also made: The derivation of (13) proves that the character of power frequency spectra of fluctuations Card 2/5

33785 S/108/62/017/002/001/010 D201/D305

Interference-killing properties ...

of the process is $u_n^2(t)$ and $U_n(t)U_n(t-\tau_i)$ is practically the same. It follows that for any i the magnitude of the coefficient ki, relating the dispersion of noise at the input and output of the integrator, is independent of i and, therefore,

(20)

and that the intensity of power spectrum fluctuation of the process $u_n^2(t)$ is approximately twice that of the process $u_n(t)u_n(t-\tau)$. It follows from (13) and (20) that the signal-to-noise ratio at the output $(S/N)_{out}$ is directly proportional to $\Psi(M_i, m_i)$ as given by

 $\psi(M_{l}, m_{l}) = \frac{1 + \sum_{i=1}^{n} M_{i} m_{l}}{\sqrt{1 + \frac{1}{2} \sum_{i=1}^{n} M_{i}}}$ (23)

 $\frac{i\tau_1}{}$ and maximum improvement is obtained Card 3/5

33786 \$/108/62/017/002/001/010 D201/D305

Interference-killing properties ...

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for maximum of function Ψ , so that the problem of determining the weighting factors A_1 reduces to determining i partial derivatives of $\Psi(M_1, m_1)$ with respect to M_k and equating them to zero which leads to a recurrent expression for the optimum values of weighting ractors as given by

 $N_{\kappa} = \frac{\sum_{l=1, l \neq \kappa}^{n} N_{l}^{2}}{\sum_{l=1, l \neq \kappa}^{n} N_{l} m_{l}}$ (30)

where $N_1 = A_1/A_1$. There are 4 rigures and 6 references: 5 Sovietbloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Schwartz. Commun. a. elect., no. 23, 1056.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications imeni A.S. Popov)

Card 4/5

Interference-killing properties ...

33786 S/108/62/017/002/001/010 D201/D305

[Abstractor's note: Name of Association taken from first page of journal]

SUBMITTED: April 28, 1961

Fig. 1.

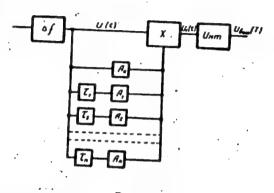


Рис. 1

Card 5/5

YAKOVIEV, Vasiliy Mikolsyevich, kand. tekhn. nauk; YOLIE-MER, E.F.,
doktor tekhn. nauk; reteenzent; FOLYAMEKAYA, L.O., inzh.,
red.izd-va; MATUEVICH, S.K., tekhn. red.

[Transistor pulse generators] Impul'anye generatory na tranzistorakh. Kiev, Gostekhizdat Ukr.SSR, 1963. 356 p.
(NIRA 16:12)

(Pulse techniques (Electronics))
(Oscillators, Transistor)

VOLLERNER, N.F.

Choice of the optimum dissipation of electric power in the components of radio-electronic apparatus. Izv. vys. ucheb. zav.; radiotekh. 6 no.3:287-291 My-Je '63. (MIRA 16:9)

1. Rekomendovana kafedroy radiopriyemnykh ustroystv Kiyevskogo ordena Lenina politekhnicheskogo instituta.

(Radio--Equipment and supplies)

(Electric power supply to apparatus)

L 10282-63 ACCESSION NEL: AP3001129 s/0108/63/018/006/0056/0061

AUTHOR: Voilerner, N. F.; Gatkin, N. G.; Daletskiy, Yu. L.; Yaroshenko, V. V. Members of the Society (see Association)

TITLE: Multichannel measurement of fluctuating voltages

SOURCE: Radiotekhnika, v. 18, no. 6, 1963, 56-61

TOPIC TAGS: measuring fluctuating voltages

ABSTRACT: A case is considered when low-level fluctuating voltages on several channels are to be combined and measured. Each voltage is amplified, and the amplifier noise is also assumed fluctuating. Gaussian distribution and similar spectral characteristics are assumed. The amplifier output voltages are combined by a transducer and then measured by a permanent-magnet moving-coil instrument. The mixture of measurand and noise voltages undergoes an "optimum conversion" in the transducer. A mathematical analysis presented in the article shows that:

(1) in case of entirely uncorrelated measurands, they should be first summed and (1) in case of entirely correlated measurands, they should be first squared; (2) in case of entirely correlated measurands, they should be first squared and then summed. Orig. art. has: 23 formulas and 1 figure.

Scientific and Technical Society of Radio Engineering and Electrocunnications.

Card 1/2/

WOLLERNER, M.F.; KRIKSUNOV, V.G.; TERESHCHUK, R.M.

Some errors of spectrum analyzers with preliminary signetic recording. Izv. vys. ucheb. zav.; radiotekh. 7 no.1:81-84 (MIRA 17;5)

Ja-F'64.

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860620014-3

L 6397-66 EWT (1) WR

ACC NR: AP5020928

SOURCE CODE: UR/0142/65/008/003/0360/0362

AUTHOR: Vollarmer, N. F. (Prof.); Vasyuk, G. I.; Fuks, L. B.

ORG: none

TITLE: The problem of a probing pulse with a narrow spectrum

SOURCE: IVUZ. Radiotekhnika, v. 7, no. 3, 1965, 360-362

TOPIC TAGS: radar pulse, pulse shape, radar frequency bandwidth

ABSTRACT: To achieve highest velocity resolution (minimum AV) in a radar pulse, pulses with the narrowest possible bandwidth are required. The direct relationship between echo-signal attenuation N and limiting AV is used in selection of the best pulse shape. Development of quantitative relationships or examination of cases of radical alteration of parameters of the radar other than pulse shape is avoided. Two cases are considered: the first involves discrimination between objects with widely differing echo cross sections (this requires resolution of signal "tails" and therefore normalization of pulses over the full duration of the emission); and the second guarantees high discrimination of a stationary object on a reflective

Card 1/2

UDC: 621.391.82

D702 0125

L 6397-66

ACC NR: AP5020928

background (here normalization over the time interval containing the major portion of the energy is important, and the length and form of "tails" are secondary). The rectangular pulse shape has the highest concentration of energy in time at a given peak power; the sin x/x shape has highest concentration of energy in a bandwidth at a constant spectral density; the bell shape has in practice the highest possible concentration of energy simultaneously in time and in a bandwidth. Comparison of the different pulse shapes for the first case shows superiority of the sin x/x pulse. In the second case the bell-shaped pulse is best. The rectangular pulse can be used in the event of low values of N but does not reduce AV. The sin x/x pulse has some advantages for high values of N but is not very promising in a real noise environment. The bell-shaped pulse is in general the best choice for low AV, but in practice the rectangular pulse is sufficiently effective and requires simpler apparatus. The rigorous treatment of M. S. Gurevich [Gurevich, M. S., Spektry radiosignalov, Svyaz'izdat, 1963] is similar to the first case and indicates the need for the same type of treatment of the second case. Orig. art. has: 2 figures.

SUB CODE: EC/ SUBM DATE: O5Jun64/ ORIG REF: 007/ OTH REF: 000

00

Card 2/2

L 6961-66 ENT(1)/ENA(h) ACC NR: AP502(931 SOURCE CODE: UR/0142/65/008/003/0366/0368

AUTHOR: Vollerner, N. F. (Prof.); Borovskiy, V. P.; Shuvayev, V. A.

B

ORG: none

TITLE: A generator of video pulses of arbitrary shape

SOURCE: IVUZ. Radiotekhnika, v. 8, no. 3, 1965, 366-368

TOPIC TAGS: pulse shaper, RC circuit, pulse generator

ABSTRACT: In contrast to the complex arbitrary function generators described in the literature, a comparatively simple scheme for obtaining pulses of arbitrary shape is described. The method is basically the following: 1) the creation of a step function of n quantizing pulses of identical duration and amplitudes proportional to the instantaneous values of the function at successive instants; 2) smoothting the step function with a low-frequency filter such as an integrating RC circuit. A commutator based on cold-cathode thyratrons operating on the principle of a counting circuit is proposed since it is simpler and more reliable than commutators. If

UDC: 621.373.53

Card 1/2

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"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860620014-3

L 6961-66

ACC NR: AP5020931

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a symmetrical pulse shaper is desired, the number of commutator cells can be halved. A generator with a capacity of 64 quantizing pulses is capable of generating functions from 5 microseconds to several seconds in duration. The functions generated are within 2-3% of the theoretical estimates. The arbitrary function generator should find wide use in analog computer technology, modeling of systems, and production of AM and FM oscillations with arbitrary modulations. Orig. art. has: 4 figures.

SUP CODE: EC/

SUBM DATE: 26Jun64/

ORIG REF: 002/

OTH REF: 001

Card 2/2 rds.

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620014-3

L 63713-65 ENT(1)/EEC(b)-2/EWA(h)

ACCESSION NR: AP5014056 UR/0108/65/020/005/0060/0065

621.3.019

AUTHOR: Vollarner, N. F. (Active member)

B

TITLE: Technically and economically expedient level of reliability

SOURCE: Radiotekhnika, v. 20, no. 5, 1965, 60-65

TOPIC TAGS: system reliability, electronic system reliability 75

ABSTRACT: Based on the approaches and ideas of E. L. Velker et al. (5th Nat. Symposium, USA, 1960), A. L. Lambert et al. (4th Nat. Symposium, USA, 1959), and D. A. Griffin (IRE Trans., RQC-9, Apr 1960), the optimum reliability of electronic equipment is considered as a result of balancing the first cost and operating expenses against probable loss and damage from failure of equipment to operate. Three transcendent equations are developed for the total equipment cost (10) and the cost with and without reserving (16, 17). These equations, suitable for numerical solution on a computer, permit determining the reliability expedient from engineering and economic viewpoints. Orig. art. has: 20 formulas.

Card 1/2

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620014-3

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	ACCESSION NR: AP5014056 ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi (Scientific and Technical Society of Radio Engineering and Electrocommunication)	
	SUBMITTED: 17Apr63 ENCL: 00 SUB CODE: DP, EC NO REF SOV: (105 OTHER: 003	
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ACC NR: AP6032919

SOURCE CODE: UR/0142/66/009/003/0310/0315

AUTHOR: Vollerner, N. F. (Professor); Balitskaya, V. G.; Dugin, V. V.

ORG: none

TITLE: Evaluating the echo-signal amplitude with an allowance for a-priori distribution of probability density of the signal levels

SOURCE: IVUZ. Radiotekhnika, v. 9, no. 3, 1966, 310-315

TOPIC TAGS: radar echo, radar detection

ABSTRACT: The amplitude evaluation is made on the basis of mathematical expectation of the amplitude because this method permits finding an unbiased amplitude estimate with minimal mean-square error. Design formulas are derived for estimating the signal amplitude from a known level of the signal-mixed-with-Gaussian-noise envelope for uniform, Raleigh, and more general

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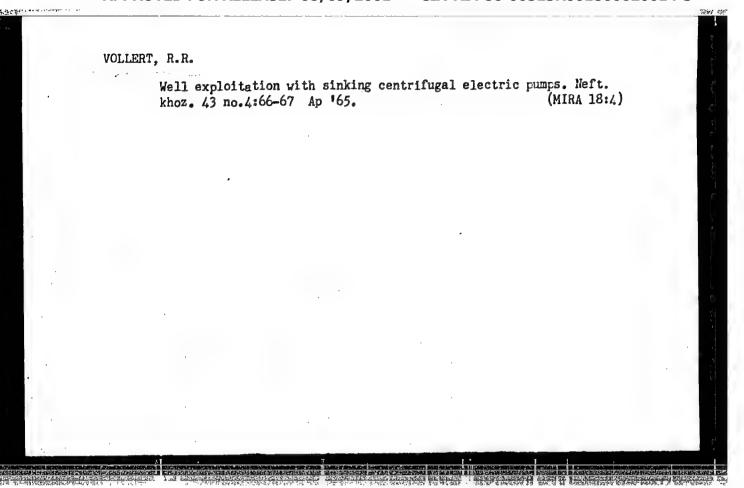
UDC: 621.391.16

ACC NR: AP6032919

a-priori distributions. The curves shown in the article permit determining the confidence intervals of amplitude, with a specified probability and with a known order of magnitude of the ratio of signal dispersion to noise mean-square value; the curves also permit finding approximate estimate of the amplitude, as well as finding the order of error for the case when uniform distribution is assumed instead of real a-priori distribution. Orig. art. has: 6 figures and 22 formulas.

SUB CODE: 17, 09 / SUBM DATE: 22Jun64 / ORIG REF: 002 / OTH REF: 001

CARD 1/2



TAMARIN, A.A., kand. tekhn. nauk. Prinimali uchastiye: VOLLEYDT, A.N., mlad. nauchnyy sotr.; POPOVA, N.A., mlad. nauchnyy sotr.; MASLOBOYSHCHIKOV, A.N., inzh.; KUDINOV, A.I.; PIROZHNIKOV, L.B.; SHITOVA, L.N., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Instructions for production testing of large prestressed concrete elements]Ukazaniia po proizvodstvennym ispytaniiam krupnorazmernykh predvaritel'no napriazhennykh zhelezobetonnykh konstruktsii. Moskva, Gosstroiizdat, 1962. 128 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut or ganizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

2. Rukovoditel' gruppy ispytaniy Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Tamarin).

(Prestressed concrete—Testing)

GUREVICH, Samuil Moiseyevich; VOLLEYDT, L.P., red.; SHPAK, Ye.G., tekhn. red.

[Effect of mineral fertilizers on deep Chernozems]Deistvie mineral'nykh udobrenii na moshchnom chernozeme. Moskva, Goskhimizdat, 1962. 254 p. (MIRA 16:2) (Chernozem soils) (Fertilizers and manures)

VOLLEYDT, L. P.

Dissertation: "The Influence of Various Forms of Nitrogen Fertilizers on the Yield of Plants and Their Quality in Relation to Phosphate-Potassium Nutrition." Cand Agr 3ci, ALL-Union Sci Res Inst of Fertilizers, Agricultural Engineering and Soil Science, Moscow, 1953. (Referativnyy Zhurnal--Khimiya, Moscow, No 4, Feb 54)

SO: SUM 243, 19 Oct 54

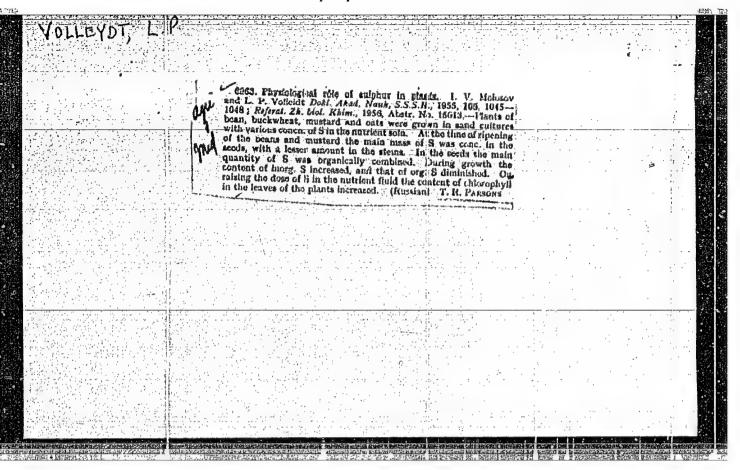
MOSOLOV, I.V., VOLLEYDT, L.P.

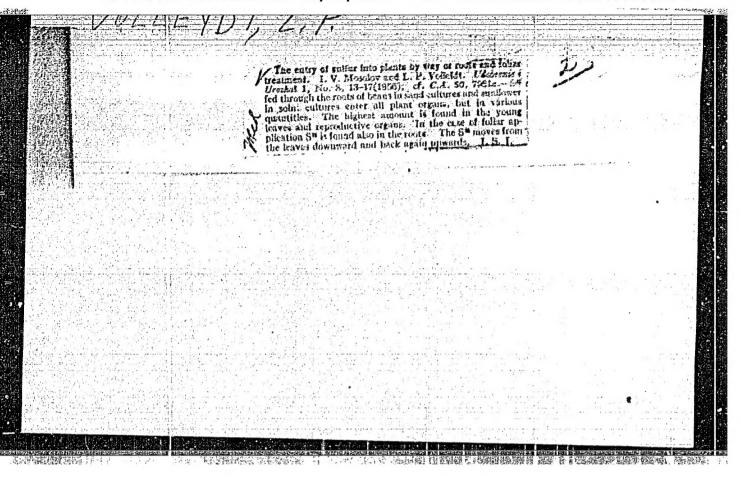
Physiological role of sulfur in plants. Dokl. AN SSSR 105 no.5: 1045-1048 D *55. (MLRA 9:3)

1. Vsesoyuznyy nauchno-issledovatel*skiy institut udobreniy, agrotekhniki i agropochvovedeniya. Predstavleno akademikom A.L. Kursanovym.

(Plants, Mffect of sulfur on)

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GRACHEV. Dmitriy Grigor'yevich; VOLLEYDT, L.P., redsktor; SHPAK, Ye.G., tekhnicheskiy redsktor

[Mineral ferullisers, insecticides, and pungicides; a manual for fruit and vegetable growers] Mineral'nye udobrenila i isdokhimikety; posoble dlia sadovodov i ogorodnikov. Moskva, Gos.neuchno-tekhn, izd-vo khim.lit-ry, 1957. 86 p. (MLRA 10:9)

(Fertilizers and menures) (Insecticides) (Fungicides)

MOSOLOV, I.V.; VOLLEYDT, L.P.

Effect of nutrient ratio on phosphorus metabolism, growth, and yield of corn. Izv. AN SSSR. Ser. biol. no.2:262-270 Mr-Ap '60. (MIRA 14:3)

1. The Union Research Institute of Fertilizers and Agropedology. (CORN (MAIZE) FERTILIZERS AID MANURES) (PLANTS, EFFECT OF NITROGEN ON)

(PLANTS, EFFECT OF PHOSPHORUS ON)

507/46-5-1-4/24

AUTHORS:

Vollerner, N.F. and Karnovskiy, M.I.

TITLE:

On Calculation of the Concentration Coefficient of Certain Directive Acoustical Systems (K raschet koeffitslyra's kontsentratsii nekotoryki:

napravlennykh akusticheskikh sistem)

PERIODICAL: Akusticheskiy Zhurnal, 1959, Vol 5, Nr 1, pp 25-30 (USSR)

ABS TRACT:

Relationships between the coefficient of axial concentration and the coefficient of pressure amplification of acoustical systems possessing directivity, make it possible to calculate one of these coefficients when the other is known. Such relationships are very useful when direct calculation of one of these coefficients is considerably easier. The authors derive these relationships for axi-symmetrical parabolic and cylindrical concentrators. The paper is entirely theoretical. There are 3 figures and 7 references, 6 of which are Soviet and 1 German.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute)

SUBMITTED:

December 10, 1957

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